



03-12-05

IFW

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)

CLYDE C. BRYANT)

Serial No: 09/632,739)

Filed: August 4, 2000)

For: **IMPROVED INTERNAL COMBUSTION ENGINE AND WORKING CYCLE**

FIFTH INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant hereby voluntarily discloses the items listed on the attached Form PTO/SB/08A to the Commissioner for Patents. Copies of Items T-Y, AS, and CX-DC are enclosed. Pursuant to the Waiver in the Pre-OG Notice dated July 11, 2003, copies of items A-S, Z-AR, AT-BL, BM-CE and CF-CW are not enclosed. Pursuant to Deputy Commissioner's Notice of October 19, 2004, copies of Items DD-DP are not enclosed.

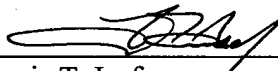
Applicant has not made a determination of what, if any, relevance the listed items may have to the present application, but has submitted them out of an abundance of caution since they were cited by Caterpillar, Inc. (the Patent Owner in Reexamination) in Information Disclosure Statements filed in Inter Partes Reexamination Nos. 95/000,049 and 95/000,050.

Applicant further reserves the right to establish the patentability of the claimed invention over any of the listed information should they be applied as references, and/or to prove that some of the cited information may not be prior art, and/or to prove that some of the cited information may not be enabling for the teachings they purport to offer. This statement further should not be construed as a representation that an exhaustive search has been made, or that the information

cited herewith is material, or that there does not exist information more material to the examination of the present Application. The Examiner is specifically requested not to rely solely on the information submitted herein. On the contrary, the Examiner is requested to conduct an independent and thorough review of the information, and to form independent opinions as to their significance.

It is respectfully requested that the Examiner initial and return copies of the enclosed PTO-1449 and to indicate in the official file wrapper of the above-identified patent application that each item of the cited information has been considered.

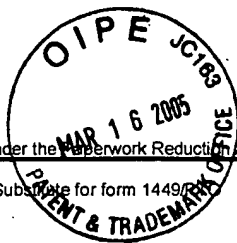
Date: 3-16-2005



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Docket No.: **E025 1031**



PTO/SB/08A (08-03)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 7

Complete if Known

Application Number	09/632,739
Filing Date	8/4/2000
First Named Inventor	Clyde C. Bryant
Art Unit	3746
Examiner Name	Michael Kocz, Jr.
Attorney Docket Number	E025 1031

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A	US- 2001/0002379	05/31/2001	Schechter	
	B	US- 2001/0023671	09/27/2001	Vorih	
	C	US- 2002/0157623	10/31/2002	Turner et al.	
	D	US- 2003/0145810	08/07/2003	Leman et al.	
	E	US- 2004/0118118	06/24/2004	Weber et al.	
	F	US- 2004/0206331	10/21/2004	Leman	
	G	US- 3,250,068	05/10/1966	Vulliamy	
	H	US- 4,020,809	05/03/1977	Kern et al.	
	I	US- 4,033,304	07/05/1977	Luria	
	J	US- 4,050,435	09/27/1977	Fuller, Jr. et al.	
	K	US- 4,161,166	07/17/1979	Roznovsky	
	L	US- 4,180,035	12/25/1979	Saiki et al.	
	M	US- 4,206,728	06/10/1980	Trenne	
	N	US- 4,423,709	01/03/1984	Arrieta	
	O	US- 4,424,790	01/10/1984	Curtill	
	P	US- 4,474,008	10/02/1984	Sakurai et al.	
	Q	US- 4,561,253	12/31/1985	Curtill	
	R	US- 4,572,114	02/25/1985	Sickler	
	S	US- 4,643,049	02/17/1987	Nishikawa et al.	

FOREIGN PATENT DOCUMENTS

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	T	WO 01/20150	03/22/2001	Diesel Engine		
	U	DE 44 40 289 A1	05/15/1996	Schmidt		
	V	DE 44 43 169 A1	06/13/1996	Dens		
	W	EP 0 961 018 A1	12/01/1999	Maeda		
	X	JP 05106415 A2	04/27/1993	Toshiaki		
	Y	JP 2000 120457	04/25/2000	Haruyuki		

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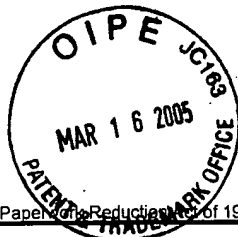
Date

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STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 7

Complete if Known

Application Number	09/632,739
Filing Date	8/4/2000
First Named Inventor	Clyde C. Bryant
Art Unit	3746
Examiner Name	Michael Kocz, Jr.
Attorney Docket Number	E025 1031

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		Number-Kind Code ² (if known)			
	Z	US- 4,815,423	03/28/1989	Holmer	
	AA	US- 4,833,971	05/30/1989	Kubik	
	AB	US- 5,000,145	03/19/1991	Quenneville	
	AC	US- 5,012,778	05/07/1991	Pitzi	
	AD	US- 5,191,867	03/09/1993	Glassey	
	AE	US- 5,255,641	10/26/1993	Schechter	
	AF	US- 5,327,858	07/12/1994	Hausknecht	
	AG	US- 5,333,456	08/02/1994	Bollinger	
	AG	US- 5,335,633	08/09/1994	Thien	
	AI	US- 5,363,816	11/15/1994	Yorita et al.	
	AJ	US- 5,379,743	01/10/1995	Stokes et al.	
	AK	US- 5,408,979	04/25/1995	Backlund et al.	
	AL	US- 5,445,128	08/29/1995	Letang et al.	
	AM	US- 5,456,222	10/10/1995	Hu et al.	
	AN	US- 5,479,890	01/02/1996	Hu et al.	
	AO	US- 5,520,161	05/28/1996	Klopp	
	AP	US- 5,546,914	08/20/1996	Scheinert	
	AQ	US- 5,549,095	08/27/1996	Goto et al.	
	AR	US- 5,564,386	10/15/1996	Korte et al.	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	AS	JP 2000-145484	05/26/2000	Yukihiro		

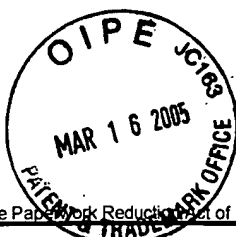
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Sheet 3

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Application Number	09/632,739
Filing Date	8/4/2000
First Named Inventor	Clyde C. Bryant
Art Unit	3746
Examiner Name	Michael Koczo, Jr.
Attorney Docket Number	E025 1031

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		Number-Kind Code ² (if known)			
	AT	US- 5,586,526	12/24/1996	Lindquist	
	AU	US- 5,586,531	12/24/1996	Vittorio	
	AV	US- 5,611,204	03/18/1997	Radovanovic et al.	
	AW	US- 5,615,646	04/01/1997	Feucht	
	AX	US- 5,619,965	04/15/1997	Cosma et al	
	AY	US- 5,645,030	07/08/1997	Letsche	
	AZ	US- 5,682,854	11/04/1997	Ozawa	
	BA	US- 5,713,331	02/03/1998	Eisenbacher et al.	
	BB	US- 5,718,199	02/17/1998	Hu et al.	
	BC	US- 5,724,939	03/10/1998	Faletti et al.	
	BD	US- 5,732,678	03/31/1998	Lindquist et al.	
	BE	US- 5,778,674	07/14/1998	Kimura	
	BF	US- 5,787,859	08/04/1998	Meistrick et al.	
	BG	US- 5,809,964	09/22/1998	Meistrick et al.	
	BH	US- 5,813,231	09/29/1998	Faletti et al.	
	BI	US- 5,816,216	10/06/1998	Egashira et al.	
	BJ	US- 5,829,397	11/03/1998	Vorih et al.	
	BK	US- 5,839,400	11/24/1998	Vattaneo et al.	
	BL	US- 5,839,453	11/24/1998	Hu	

FOREIGN PATENT DOCUMENTS

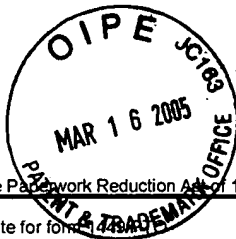
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 4 of 7

Complete if Known

Application Number	09/632,739
Filing Date	8/4/2000
First Named Inventor	Clyde C. Bryant
Art Unit	3746
Examiner Name	Michael Kocz, Jr.
Attorney Docket Number	E025 1031

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		Number-Kind Code ² (if known)			
	BM	US- 5,937,807	08/17/1999	Peters et al.	
	BN	US- 5,967,115	10/19/1999	Konopka et al.	
	BO	US- 6,000,374	12/14/1999	osma et al.	
	BP	US- 6,003,316	12/21/1999	Baert et al.	
	BQ	US- 6,006,706	12/28/1999	Kanzaki	
	BR	US- 6,012,424	01/11/2000	Meistrick	
	BS	US- 6,020,651	02/01/2000	Nakamura et al.	
	BT	US- 6,026,786	02/22/2000	Groff et al.	
	BU	US- 6,035,639	03/14/2000	Kolmanovsky et al.	
	BV	US- 6,035,640	03/14/2000	Kolmanovsky et al.	
	BW	US- 6,067,800	05/30/2000	Kolmanovsky et al.	
	BX	US- 6,067,946	05/30/2000	Freudenberg et al.	
	BY	US- 6,076,353	06/20/2000	Meistrick et al.	
	BZ	US- 6,082,328	07/04/2000	Meistrick et al.	
	CA	US- 6,095,127	08/01/2000	Kolmanovsky et al.	
	CB	US- 6,101,998	08/15/2000	Tamura et al.	
	CC	US- 6,128,902	10/10/2000	Kolmanovsky et al.	
	CD	US- 6,135,073	10/24/2000	Feucht et al.	
	CE	US- 6,148,778	11/21/2000	Sturman	

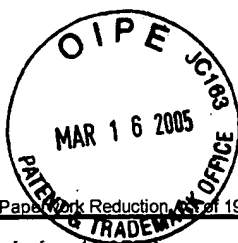
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	CF	US- 6,170,441	01/09/2001	Haldeman et al.	
	CG	US- 6,178,749	01/30/2001	Kolmanovsky et al.	
	CH	US- 6,189,504	02/20/2001	Israel et al.	
	CI	US- 6,209,516	04/30/2001	Yamashita	
	CJ	US- 6,237,551	05/29/2001	Macor et al.	
	CK	US- 6,244,257	06/12/2001	Hu	
	CL	US- 6,267,107	07/31/2001	Ward	
	CM	US- 6,273,076	03/14/2001	Beck et al.	
	CN	US- 6,279,550	08/28/2001	Bryant	
	CO	US- 6,301,887	10/16/2001	Gorel et al.	
	CP	US- 6,301,889	10/16/2001	Gladden et al.	
	CQ	US- 6,302,076	10/16/2001	Bredy	
	CR	US- 6,439,195	08/27/2002	Warner	
	CS	US- 6,467,452	10/22/2002	Duffy et al.	
	CT	US- 6,571,765	06/30/2003	Kuboshima et al.	
	CU	US- 6,688,280	02/10/2004	Weber et al.	
	CV	US- 6,722,349	04/20/2004	Leman et al.	
	CW	US- 6,732,685	05/11/2004	Leman	
		US-			

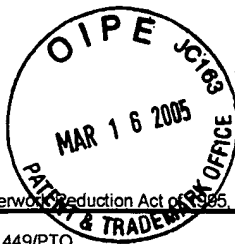
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

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Sheet 6 of 7

NON PATENT LITERATURE DOCUMENTS

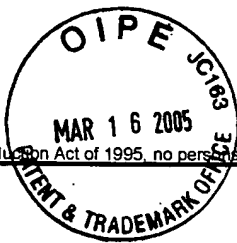
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CX	http://www.mazda.com.au/corpora/209.html , Oct. 16, 2001, pg. 1-6.	
	CY	Challen et al., "Diesel Engine Reference Book, Second Edition," SAE International, 1999, pages 75, 81, 84, 146, and 263-305.	
	CZ	Edwards et al, "The Potential of a Combined Miller Cycle & Internal EGR Engine for Future Heavy Duty Truck Apps" SAE Int'l, Int'l Congress & Expo, 2/23-2/26, 1998	
	DA	Yorihiro Fukuzawa et al., "Development of High Efficiency Miller Cycle Gas Engine", Mitsubishi Heavy Industries, Ltd., Technical Review, Vol. 38, No. 3, Oct. 2001, pp. 146-150	
	DB	Documents Related to ReExamination No. 95/000,049 (U.S. Patent No. 6,651,618) (5 Documents)	
	DC	Documents Related to ReExamination No. 95/000,050 (U.S. Patent No. 6,688,280) (5 Documents)	
	DD	Pending Application No. 10/992,198; Title: Combustion Engine Including Fluidically-Driven Engine Valve Actuator - Filing Date: 11/19/04	
	DE	Pending Application No. 10/992,137; Title: Combustion Engine Including Fluidically-Controlled Engine Valve Actuator - Filing Date: 11/19/04	
	DF	Office Action dated 5/28/04, for pending application no. 10/733,570; Amendment filed 11/24/04, for application no. 10/733,570	
	DG	Pending Application No. 10/933,300; Title: Air & Fuel Supply System for Combustion Engine - Filing Date: 11/19/04	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	09/632,739
Filing Date	8/4/2000
First Named Inventor	Clyde C. Bryant
Art Unit	3746
Examiner Name	Michael Kocz, Jr.
Attorney Docket Number	E025 1031

Sheet 7 of 7

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	DH	Pending Application No. 10/992,074; Title: Combustion Engine Including Cam Phase-Shifting - Filing Date: 11/19/04	
	DI	Pending Application No. 10/992,866; Title: Air & Fuel Supply System for Combustion Engine With Particulate Trap - Filing Date: 11/19/04	
	DJ	Pending Application No. 10/992,857; Title: Air & Fuel Supply System for Combustion Engine Operating at Optimum Engine Speed - Filing Date: 11/19/04	
	DK	Pending Application No. 10/992,897; Title: Air & Fuel Supply System for Combustion Engine - Filing Date: 11/19/04	
	DL	Pending Application No. 10/933,065; Title: Air & Fuel Supply System for Combustion Engine Operating in HCCI Mode - Filing Date: 11/19/04	
	DM	Pending Application No. 10/992,070; Title: Combustion Engine Including Exhaust Purification with On-Board Ammonia Production - Filing Date: 11/19/04	
	DN	Pending Application No. 10/992,071; Title: Combustion Engine Including Engine Valve Actuation System - Filing Date: 11/19/04	
	DO	Pending Application No. 10/992,069; Title: Air & Fuel Supply System for Combustion Engine - Filing Date: 11/19/04	
	DP	Pending Application No. 10/992,125; Title: Air & Fuel Supply System for A Combustion Engine - Filing Date: 11/19/04	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)
 CLYDE C. BRYANT)
Serial No: **09/632,739**) Art Unit: **3746**
Filed: **August 4, 2000**) Examiner: **Michael Koczo, Jr.**
For: **IMPROVED INTERNAL COMBUSTION ENGINE AND WORKING**
 CYCLE

CERTIFICATE OF EXPRESS MAIL

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Enclosed for filing in the above case are the following documents:

5th Information Disclosure Statement
Forms PTO/SB/08A (7 Pages)
Copies of Items T-Y, AS, and CX-DC
Return Postcard

Womble Carlyle Sandridge & Rice, PLLC
P.O. Box 7037
Atlanta, GA 30357-0037
(404) 872-7000 (Telephone)
(404) 888-7490 (Facsimile)

Docket Number: **E025 1031**

I hereby certify that all correspondences listed above are being deposited for delivery to the above addressee, with the United States Postal Service "**EXPRESS MAIL POST OFFICE TO ADDRESSEE**" service under 37 CFR 1.10 on the date indicated below:

The envelope has been given U.S. Postal Service "Express Mail Post Office To Addressee" Package #EV 623462625 US.

3/16/05
Date

Suzanne Skinner
(Printed Name of Person Mailing
Correspondence)

Suzanne Skinner
(Signature of Person Mailing
Correspondence)